



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010588  
CERTIFICATION DATE: September 26, 2013  
DATE RECERTIFICATION DUE: March 25, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

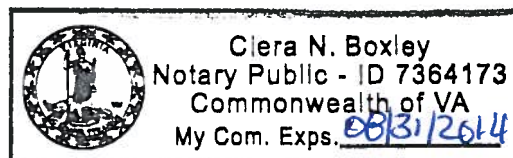
Melissa Kennedy  
Program Manager, Calibration & Training

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 4th day of October, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014  
TLN



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 9/27/2013**

HMS  
WJL

**Instrument Serial Number:** 010588 **As of 27-Sep-13**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
26-Sep-13	26-Sep-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
16-Apr-13	16-Apr-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
05-Nov-12	05-Nov-12	HMS (18910)	MOVED INSTRUMENT TO NEW LOCATION, FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
31-May-12	31-May-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
08-Dec-11	08-Dec-11	HMS (18910)	REPLACED PRINTER RIBBON, CERTIFIED
30-Sep-11	30-Sep-11	HMS (18910)	CALIBRATED AND CERTIFIED.
11-Jun-10	11-Jun-10	RJP (22428)	CALIBRATED BAROMETRIC PRESSURE SENSOR. CALIBRATED AND CERTIFIED.
02-Jun-10	02-Jun-10	RJP (22428)	CERTIFIED
06-May-10	14-Dec-09	RJP (22428)	REPLACED DRY GAS STANDARD.
30-Mar-10	14-Dec-09	RJP (22428)	REPLACED DRY GAS STANDARD.
14-Dec-09	14-Dec-09	RJP (22428)	CERTIFIED
19-Nov-09	29-Jun-09	RJP (22428)	REPLACED DRY GAS STANDARD.
29-Jun-09	29-Jun-09	RJP (22428)	REPLACED DRY GAS STANDARD. REPLACED PRINTER RIBBON. CALIBRATED AND CERTIFIED.
17-Mar-09	17-Mar-09	RJP (22428)	CERTIFIED.
04-Mar-09	04-Mar-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
15-Dec-08	15-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

ANS  
WJH

# INTOX EC/IR II

## Quality Assurance Worksheet

Instrument Serial Number 010588 Worksheet Start Date 9/26/2013

Location Smyth County

Address 819 Matson Dr., Marion, VA 24354

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

### Site Specifications

Yes No

**1 Secured Environment:**

Location must not be accessible to the general public.

☒ ☐

**2 Environment free from contaminants**

☒ ☐

**3 Dedicated telephone line:**

The phone line should be used solely by the instrument.

☒ ☐

**4 Adequate Ventilation:**

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

**5 Stable temperature controls:**

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

**6 115VAC power source:**

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

**7 Room Condition:**

The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no.	New serial no.	Supplies	
E-Seek		Mouthpieces	50
Keyboard		Certificates of Analysis	
Printer		Operator Worksheet	2 pads
UPS		Other:	

Maintenance (if any)  
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010588

Certification Date 9/26/2013

Instrument Barometer (mm HG) 703

Reference Barometer (mm HG) 705

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.231
0.250	0.232	0.225	0.238	Sample 2	0.230
Precision		sample min	sample max	Sample 3	0.230
0.001		0.230	0.231		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.141
0.150	0.139	0.134	0.143	Sample 2	0.141
Precision		sample min	sample max	Sample 3	0.141
0		0.141	0.141		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.074
0.080	0.074	0.071	0.077	Sample 2	0.075
Precision		sample min	sample max	Sample 3	0.075
0.001		0.074	0.075		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.018
0.020	0.019	0.016	0.022	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.018
0		0.018	0.018		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG227501-29

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.093
0.100	0.093	0.090	0.096	Sample 2	0.093
Precision		sample min	sample max	Sample 3	0.093
0		0.093	0.093		

DFS Technician

Heather M. Stark

Date

9/27/13

Issuing Analyst

Melissa Kennedy

Date

9/30/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

TLN

DFS Document 250-F113

Revision 6

Page 2 of 2




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HNS and MSK

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>09/26/2013</b>
TEST EQUIPMENT NUMBER <b>010588</b>		

RESULTS: TIME SAMPLE TAKEN 08:26 EDT  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

BREATH TEST OPERATOR
----------------------

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE

FOR COURT



# IntoxNet MIS Report

Report Generated 27 Sep 2013 at 08:47

AMS  
NLS

## Test Results

Instrument Serial Number 010588

Test # 001598 Subject Test

Test Location 1 Department of  
Test Date 26 Sep 2013

Test Location 2 Forensic Science  
Test Time 08:20  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 26 Sep 2013 End Time 08:27

Result Time 08:26

Result Date 26 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 08:20

Data Type BLK

Sample Value 0.000

Sample Time 08:21

Data Type CHK

Sample Value 0.094

Sample Time 08:21

Data Type BLK

Sample Value 0.000

Sample Time 08:23

Data Type SUBJ

Sample Value 0.000

Sample Time 08:23

Data Type BLK

Sample Value 0.000

Sample Time 08:24

Data Type SUBJ

Sample Value 0.000

Sample Time 08:26

Data Type BLK

Sample Value 0.000

Sample Time 08:27

Standard Type Dry Gas Std

Standard Value 0.093

Standard Lot Number AG227501-29

Standard Expiration Date 10/01/2014

Tank Pressure 973

Barometric Pressure 703 mmHg

Blow Sample Number 1 Blow Duration 3.22 sec

Blow Volume 1729 cc End-of-Blow Time 08:23

Blow Sample Number 2 Blow Duration 3.30 sec

Blow Volume 1776 cc End-of-Blow Time 08:26

Tamper Evident Stamp 90a31293

Test Status Code 0

Test Status Success

Handwritten initials: HNS and NLS

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1599

Test Date: 09/26/2013      Test Time: 08:32 EDT

Dry Gas Target: 0.093

Lot Number: AG227501-29      Exp Date: 10/01/2014

Tank Pressure: 968 psi      Barometric Pressure: 704 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	08:33
CHK	0.094	08:34
BLK	0.000	08:35
CHK	0.094	08:36
BLK	0.000	08:37
CHK	0.094	08:38

Test Status: *Success*

Calibration CRC: 7D353BC2

HMS  
WHL

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1600

Test Date: 09/26/2013      Test Time: 08:42 EDT

Dry Gas Target: 0.278

Lot Number: AG322702-02      Exp Date: 08/15/2015

Tank Pressure: 272 psi      Barometric Pressure: 704 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	08:43
CHK	0.281	08:43
BLK	0.000	08:45
CHK	0.280	08:46
BLK	0.000	08:47
CHK	0.280	08:48

Test Status: *Success*

Calibration CRC: 7D353BC2



**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 010588

System Date: 09/26/2013

System Time: 09:10 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

hms  
msk

**Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1601

Test Date: 09/26/2013      Test Time: 09:14 EDT

Dry Gas Target: 0.093

Lot Number: 0651210013-06      Exp Date: 04/01/2014

Tank Pressure: 683 psi      Barometric Pressure: 704 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:15
CAL	0.093	09:16

Test Status: *Success*

Calibration CRC: 0FF3A8EE

HMS  
MSK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1602  
Test Date: 09/26/2013      Test Time: 09:19 EDT

Technician Initials: HMS

Dry Gas Target: 0.232

Lot Number: 2961225012-08      Exp Date: 11/01/2014

Tank Pressure: 634 psi      Barometric Pressure: 704 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:19
BLK	0.000	09:20
CHK	0.231	09:20
BLK	0.000	09:22
CHK	0.230	09:23
BLK	0.000	09:24
CHK	0.230	09:25
BLK	0.000	09:27

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

*HMS*  
*MS*

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1603  
Test Date: 09/26/2013      Test Time: 09:29 EDT

Technician Initials: HMS

Dry Gas Target: 0.139

Lot Number: 0771315013-04      Exp Date: 05/01/2015

Tank Pressure: 149 psi      Barometric Pressure: 704 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:30
BLK	0.000	09:30
CHK	0.141	09:31
BLK	0.000	09:32
CHK	0.141	09:33
BLK	0.000	09:34
CHK	0.141	09:35
BLK	0.000	09:37

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS  
WOL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1604  
Test Date: 09/26/2013      Test Time: 09:39 EDT

Technician Initials: HMS

Dry Gas Target: 0.074

Lot Number: 0651208012-04      Exp Date: 04/01/2014

Tank Pressure: 159 psi      Barometric Pressure: 704 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:40
BLK	0.000	09:41
CHK	0.074	09:42
BLK	0.000	09:43
CHK	0.075	09:44
BLK	0.000	09:45
CHK	0.075	09:46
BLK	0.000	09:47

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS  
MSK

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1605  
Test Date: 09/26/2013      Test Time: 09:48 EDT

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0651202011-03      Exp Date: 04/01/2014

Tank Pressure: 242 psi      Barometric Pressure: 704 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:49
BLK	0.000	09:49
CHK	0.018	09:50
BLK	0.000	09:51
CHK	0.018	09:52
BLK	0.000	09:53
CHK	0.018	09:54
BLK	0.000	09:55

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS  
NLL

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1606

Test Date: 09/26/2013      Test Time: 09:59 EDT

Dry Gas Target: 0.278

Lot Number: AG322702-02      Exp Date: 08/15/2015

Tank Pressure: 262 psi      Barometric Pressure: 704 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:00
CHK	0.281	10:01
BLK	0.000	10:02
CHK	0.281	10:03
BLK	0.000	10:05
CHK	0.281	10:06

Test Status: *Success*

Calibration CRC: 0FF3A8EE

Handwritten initials/signature in the top right corner.

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010588      Test Number: 1607

Test Date: 09/26/2013      Test Time: 10:08 EDT

Dry Gas Target: 0.093

Lot Number: AG227501-29      Exp Date: 10/01/2014

Tank Pressure: 938 psi      Barometric Pressure: 704 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:09
CHK	0.093	10:10
BLK	0.000	10:11
CHK	0.093	10:12
BLK	0.000	10:14
CHK	0.093	10:14

Test Status: *Success*

Calibration CRC: 0FF3A8EE





COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

HMS  
N2K

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>09/26/2013</b>
TEST EQUIPMENT NUMBER <b>010588</b>		

RESULTS: TIME SAMPLE TAKEN 10:22 EDT  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE

FOR COURT



# IntoxNet MIS Report

Report Generated 27 Sep 2013 at 09:00

AMS  
WJL

## Test Results

Instrument Serial Number 010588

Test # 001608 Subject Test

Test Location 1 Department of  
Test Date 26 Sep 2013

Test Location 2 Forensic Science  
Test Time 10:16  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 26 Sep 2013 End Time 10:23

Result Time 10:22

Result Date 26 Sep 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:16

Data Type BLK

Sample Value 0.000

Sample Time 10:17

Data Type CHK

Sample Value 0.093

Sample Time 10:18

Data Type BLK

Sample Value 0.000

Sample Time 10:19

Data Type SUBJ

Sample Value 0.000

Sample Time 10:19

Data Type BLK

Sample Value 0.000

Sample Time 10:20

Data Type SUBJ

Sample Value 0.000

Sample Time 10:22

Data Type BLK

Sample Value 0.000

Sample Time 10:23

Standard Type Dry Gas Std

Standard Value 0.093

Standard Lot Number AG227501-29

Standard Expiration Date 10/01/2014

Tank Pressure 933

Barometric Pressure 704 mmHg

Blow Sample Number 1 Blow Duration 3.22 sec

Blow Volume 1776 cc End-of-Blow Time 10:19

Blow Sample Number 2 Blow Duration 3.35 sec

Blow Volume 1766 cc End-of-Blow Time 10:22

Tamper Evident Stamp 38d0b53d

Test Status Code 0

Test Status Success